



Human DNMT1 blocking peptide (DAG-P0449)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	DNA (cytosine-5-)-methyltransferase 1 has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]
Specificity	Ubiquitous; highly expressed in fetal tissues, heart, kidney, placenta, peripheral blood mononuclear cells, and expressed at lower levels in spleen, lung, brain, small intestine, colon, liver, and skeletal muscle. Isoform 2 is less expressed than isoform
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the C5-methyltransferase family. Contains 2 BAH domains. Contains 1 CXXC-type zinc finger.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	DNMT1 DNA (cytosine-5-)-methyltransferase 1 [Homo sapiens (human)]
Official Symbol	DNMT1
Synonyms	DNMT1; DNA (cytosine-5-)-methyltransferase 1; AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; DNA (cytosine-5)-methyltransferase 1; m.Hsa; DNA MTase Hsa; DNA

methyltransferase Hsa1; CXXC-type zinc finger protein 9;

Entrez Gene ID	1786
mRNA Refseq	NM_001130823.1
Protein Refseq	NP_001124295.1
UniProt ID	I6L9H2
Chromosome Location	19p13.2
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Methionine degradation, organism-specific biosystem; Methionine degradation, conserved biosystem; MicroRNAs in cancer, organism-specific biosystem; MicroRNAs in cancer, conserved biosystem; One Carbon Metabolism, organism-specific biosystem; RB in Cancer, organism-specific biosystem; Regulation of retinoblastoma protein, organism-specific biosystem; Trans-sulfuration and one
Function	DNA (cytosine-5-)-methyltransferase activity; DNA binding; DNA-methyltransferase activity; RNA binding; chromatin binding; methyl-CpG binding; protein binding; transcription factor binding; zinc ion binding;